

ABSTRACT OF THE DISCLOSURE

In order to simplify a step of forming a conductive layer for external connection and improve the reliability thereof, at least either internal individual
5 electrodes or internal common electrodes, which compose of a piezoelectric vibrator, are connected with each other at through holes situated inner than a end face of the piezoelectric vibrator and connected to either a segment electrode or a common electrode, which are formed on one surface in a longitudinal direction of the piezoelectric vibrator. Accordingly, it is not
10 necessary to form a conductive layer on the end face or a corner portion where such a layer is hardly formed. Furthermore, even if such portions are slightly broken, the conductivity can be maintained.